

LIST OF PAPERS

A. RELEVANT ARTICLES FOR PROFESSIONAL ACHIEVEMENT

- a1. **Mosoarca Marius**, “Seismic behaviour of reinforced concrete shear walls with regular and staggered openings after the strong earthquakes between 2009 and 2011”, *Engineering Failure Analysis*, Volume 34, pp: 537-565, ISSN 1350-6307, DOI: 10.1016/j.engfailanal.2013.05.014, Editura Elsevier, 2013;
- a2. **Marius Mosoarca**, “Failure analysis of RC shear walls with staggered openings under seismic loads”, *Engineering Failure Analysis* Volum 41, pp: 48–64, DOI: 10.1016/j.engfailanal.2013.07.037, Ed. Elsevier, 2014;
- a3. **Marius Mosoarca**, Victor Gioncu, „Failure mechanisms for historical religious buildings in Romanian seismic areas”, *Journal of Cultural Heritage*, Volume: 14, Issue: 3, pp: E65-E72, Supplement: S, DOI: 10.1016/j.culher.2012.11.018, WOS:000327013800011, ISSN: 1296-2074, eISSN: 1778-3674, Ed. Elsevier, iunie 2013;
- a4. **Marius Mosoarca**, Victor Gioncu, „Historical wooden churches from Banat region, Romania. Damages. Modern consolidation solutions”, *Journal of Cultural Heritage*, Volum: 14, Issue: 3, pp: E45-E59, Supplement: S, DOI: 10.1016/j.culher.2012.11.020, WOS:000327013800009, ISSN: 1296-2074, eISSN: 1778-3674, Ed. Elsevier, iunie 2013;
- a5. **Marius Mosoarca**, Victor Gioncu, „Structural safety of historical buildings made of reinforced concrete, from Banat region - Romania”, *Journal of Cultural Heritage*, Volum: 14, Issue: 3, pp: E29-E34, Supplement: S, DOI: 10.1016/j.culher.2012.11.015, WOS:000327013800006, ISSN: 1296-2074, eISSN: 1778-3674, Ed.Elsevier, iunie 2013.
- a6. Victor Gioncu, **Marius Mosoarca**, Anthimos Anastasiadis, „Prediction of available rotation capacity and ductility of wide-flange beams: Part 1:DUCTROT-M computer program”, *Journal of Constructional Steel Research* 69, Volum: 69, Issue: 1, pp: 8-19, DOI: 10.1016/j.jcsr.2011.06.014, WOS:000297894100002, ISSN: 0143-974X, Ed. Elsevier, 2012;
- a7. Anthimos Anastasiadis, **Marius Mosoarca**, Victor Gioncu, „Prediction of available rotation capacity and ductility of wide-flange beams: Part 2: Applications”, *Journal of Constructional Steel Research* 69, pp. 176-191, DOI: 10.1016/j.jcsr.2011.08.007, ISSN: 0143-974X, Ed. Elsevier, 2012;
- a8. Victor Gioncu, **Marius Mosoarca**, Anastasiadis Anthimos, “Local ductility of steel elements under near-field earthquake loading”, *Journal of Constructional Steel Research*, Vol. 101, pp 33–52, DOI: 10.1016/j.jcsr.2014.05.001001, ISSN: 0143-974X, Ed. Elsevier, 2014;
- a9. Anthimos Anastasiadis, **Marius Mosoarca**, Victor Gioncu, “Investigation of the cyclic inelastic capacity of steel beams through the use of the plastic collapse mechanism”, *Bulletin of Earthquake Engineering*, DOI: 10.1007/s10518-014-9665-2, Print ISSN 1570-761X, Ed. Springer, 2014;
- a10. Andreescu Ioan, Gaivoronschi Vlad Alexandru, **Marius Mosoarca**, „The hidden gem”, *Advances Materials Research*, Vol 778, pp: 880-887, Trans Tech Publications, Switzerland, DOI:10.4028/www.scientific.net/AMR.778.880, 2013;

B. PhD THESIS

- b1. “*Contributii la calculul si alcatuirea structurilor cu pereti structurali din beton armat*” – Scientific coordinator: Prof.dr.ing. V. Stoian, Universitatea “Politehnica” Timisoara, 2004, Distinctia: “ CUM LAUDAEE”

C. SCIENTIFIC BOOKS PUBLISHED BY FOREIGN PUBLISHING HOUSES

- c1. **Mosoarca Marius**, Victor Gioncu, FP6 PROHITECH project: Vol. 5, Chapter 4.2: “Overview of collapse modes and evaluation of bearing capacity in Volume: Earthquake protection of historical buildings by reversible mixed technologies - Seismic protection of historical buildings: calculation models”, pp.245-277, F. M. Mazzolani - General coordinator; Ed. Polimetrica International Scientific, ISBN: 978-88-7699-169-6, 2012;

- c2. **Mosoarca Marius**, FP6 PROHITECH project: “Volum 1: Intervention strategies for the seismic protection of historical building heritage in the Mediterranean basin” – Ed. Polimetrica, ISBN: 978-88-7699-169-1, 2012;
- c3. **Mosoarca Marius**, Ancuta Rotaru, - Editor asociat ISI Proceedings: “Advances in Enviromental and Geological Science and Engineering”, 3rd International Conference, EG’10, Constanta, Publicat de WSEAS Press, ISSN:1792-4685; ISBN: 978-960-474-221-93-5, Septembrie, 2010;
- c4. Nagy-Gyorgy Tamas, Stoian Valeriu, **Mosoarca Marius**, Pavlou Dimitrios, Dan Daniel, Experimental study on reinforced concrete shear walls retrofitted with CFRP composites, Computational & Experimental Analysis of Damaged Materials, Kerala, India, ISBN: 86-7892-016-5, pp.155-167, 2007;

SCIENTIFIC BOOKS PUBLISHED BY LOCAL PUBLISHING HOUSES

- c5. **Mosoarca Marius**, Valeriu Stoian, “Contributii la calculul si alcatuirea peretilor structurali din beton armat”, Editura Politehnica Timisoara, ISBN: 978-606-554-648-6, 2013;
- c6. **Mosoarca Marius** “Profile of a civil engineer.Victor Gioncu at seventy”, 387 pagini, Editura Orizonturi Universitare, Timisoara, ISBN: 973-638-118-8, 2004;

D. ARTICLES PUBLISHED IN INTERNATIONAL JOURNALS

ARTICLES PUBLISHED IN ISI JOURNALS

- d1. **Marius Mosoarca**, Anthimos Anastasiadis, Kampouris Apostolos “Are free form architectures ecological buildings?”, Journal of environmental protection and ecology, vol.15, no.1 pp. 359-366, ISSN 1311-5065, 2014;
- d2. Kampouris, A, Anastasiadis Anthimos, **Marius Mosoarca**, „Environmental impact assessment and evaluation of road construction works in forest ecosystems”, Journal of environmental protection and ecology, Volum: 14 Issue: 2 pp: 753-760, WOS:000321796500041, ISSN: 1311-5065, IDS Number: 183EG, 2013.

ARTICLES PUBLISHED IN SCIENTIFIC JOURNALS FROM ABROAD

- d3. **Mosoarca Marius**, Victor Gioncu, Ovidiu Cosma, “Seismic Behaviour of Romanian Orthodox Churches, Modeling of Failure Modes by Rigid Blocks”, International Journal of Civil and Geological Engineering, Issue 6, pp:240-247; <http://waset.org/journals/ijcge/v6/v6-38.pdf>, 2012;
- d4. Anastasiadis Anthimos, **Mosoarca Marius**, ”Roofing with metallic constructions”, YΛΗ κτιριο , ΠΕΡΙΟΔΙΚΟ ΑΡΧΙΤΕΚΤΟΝΙΚΗΣ-ΤΕΧΝΟΛΟΓΙΑΣ, ISSN 1109-0189, pp:123-132, Grecia, 2002;
- d5. Anastasiadis Anthimos, **Mosoarca Marius**, ”PREFABRICATION-APPLICATIONS ON INDUSTRIAL BUILDINGS”, revista: YΛΗ κτιριο, ΠΕΡΙΟΔΙΚΟ ΑΡΧΙΤΕΚΤΟΝΙΚΗΣ-ΤΕΧΝΟΛΟΓΙΑΣ, ISSN 1109-0189, pp:109-119, Grecia, 2003;

E. ARTICLES PUBLISHED IN SCIENTIFIC CONFERENCES FROM ABROAD

ARTICLES PUBLISHED IN ISI CONFERENCES PROCEEDINGS

- e1. **Marius Mosoarca**, Victor Gioncu, Voicu Fodor, „Historical wood bearing structures. Structural deficiencies and consolidation solutions for churches located in Banat county, Romania”, Structural Analysis of Historical Constructions, SAHC, vol 1-3, pp: 1231-1239, WOS:000321224300137, ISBN: 978-83-7125-216-7, IDS Number: BFT31- J. Jasienko (ed.), DWE, ISSN: 0860-2395, Wroclaw, Polonia, 2012;
- e2. **Mosoarca Marius**, Gioncu Victor, Failure mechanism of orthodox churches situated in seismic areas in Romania, Structural analysis of historical constructions, SAHC, Vol 1-3, Ed. J. Jasienko , pp: 1656-1664, WOS:000321224300186, ISBN: 978-83-7125-216-7, IDS Number: BFT31, ISSN: 0860-2395, Wroclaw, 2012;
- e3. Anastasiadis Anthimos, **Mosoarca Marius**, Gioncu Victor, „New aspects concerning the ductility of steel members”, STESSA 2012: Proceedings of the 7th international conference on behaviour of steel structures in seismic areas, Eds.: Mazzolani, F; Herrera, R, pp: 455-461, WOS:000300400100064, ISBN: 978-0-415-62105-2, IDS Number: BYU49, Santiago, Chile, 2012;
- e4. **Mosoarca Marius**, Gioncu Victor, „Seismic environments and earthquake engineering”, Advances in environmental and geological science and engineering, International Conference on Environmental and Geological Science and Engineering-Proceedings, pp: 186-191, WOS:000302000200035, ISBN: 978-960-474-221-9, ISSN: 1792-4685, IDS Number: BZM15, Constanta, 2010;

- e5. **Mosoarca Marius**, Gioncu Victor, „Reconversion of a damaged industrial building using FRP”, Protection of historical buildings - PROHITECH 09, vol. 1 si 2, Ed.: Mazzolani, FM, pp: 605-610, WOS:000280544200092, ISBN: 978-0-415-55803-7, IDS Number: BQB06, Roma, 2009;
- e6. Gioncu Victor, **Mosoarca Marius**, „Ultimate limit state of masonry historical buildings using collapse mechanism methodology: Application for Orthodox churches, Protection of historical buildings - PROHITECH 09, vol. 1 si 2, Ed.: Mazzolani, FM, pp: 1153-1158, WOS:000280544200178, ISBN: 978-0-415-55803-7, IDS Number: BQB06, Roma, 2009;
- e7. **Mosoarca Marius**, Gioncu Victor, “Strengthening of building by modification of structural system”, pg. 1287-1292, Protection of historical buildings - PROHITECH 09, pp: 1287-1292, WOS:000280544200199, ISBN: 978-0-415-55803-7, IDS Number: BQB06, Roma, 2009;
- e8. **Mosoarca Marius**, Gioncu Victor, Niculescu Marius “Strengthening of a historical apartment building by the insertion of steel seismic-resistant”, Protection of historical buildings - PROHITECH 09, Ed: Mazzolani, FM, pp: 1335-1340, WOS:000280544200206, ISBN: 978-0-415-55803-7, IDS Number: BQB06, Roma, 2009;
- e9. **Mosoarca Marius**, Victor Gioncu, Anastasiadis Anthimos, “Proposal for increasing the ductility of steel structures”, pp.679-684, Behaviour of steel structures in seismic areas, STESSA august 2009, ISBN-13:978-0-415-56326-0; CRC Press, Taylor & Francis Group, Ed.: Mazzolani, FM; Ricles, JM; Sause, R, pp: 679-684, WOS: 000290361200098, ISBN: 978-0-415-56326-0, IDS Number: BUU26, Philadelphia, USA, 2009;
- e10. Ioan Andreescu, **Marius Mosoarca**, “The recovered beauty.restauration and reconversion of the roman – catholic church of Bobda, Romania”, Structural Analysis of Historical Constructions, Ed. J. Jasienko, SAHC 2012, ISSN: 0860-2395, ISBN: 978-83-7125-216-7, pp. 1361-1369, Wroclaw, Polonia, 2012;
- e11. **Marius Mosoarca**, “Innovative system for consolidation of historical few storey masonry buildings situated in seismic areas”, Structural Analysis of Historical Constructions, Ed. J. Jasienko, SAHC 2012, ISSN: 0860-2395, ISBN: 978-83-7125-216-7, pp. 1647-1655, Wroclaw, Polonia, 2012;
- e12. Ioan Andreescu, **Marius Mosoarca**, “Urban complex renewal of the historic city of Ciacova, Romania”, Structural Analysis of Historical Constructions, SAHC 2012, Ed. J. Jasienko , ISSN: 0860-2395, ISBN: 978-83-7125-216-7, pp. 2597-2604, Wroclaw, Polonia, 2012;
- e13. Radu Radoslav, **Marius Mosoarca**, Ana-Maria Branea, M. Stelian Gaman, “Conservation and reuse of historical industrial buildings, Case study Fabric neighborhood, Timisoara, Romania”, Structural Analysis of Historical Constructions, SAHC 2012, Ed. J. Jasienko, ISSN: 0860-2395, ISBN: 978-83-7125-216-7, pp. 2760-2769, Wroclaw, Polonia, 2012;
- e14. Mihnea Truta, **Marius Mosoarca**, Gioncu Victor, Anastasiadis A., “Optimal design of steel structures for multi –level criteria” in Proceedings of the conference on behaviour of “Steel structures in seismic area”, STESSA 2003, pp.63-69, ISBN: 90-5809-577-0, WOS: 000183623700009, Napoli, Italia, 2003;
- e15. Janos Gergely, Victor Gioncu , **Marius Mosoarca**, “Behaviour of steel MRFs subjected to near-fault ground motions”, Behaviour of Steel Structures in Seismic Areas, pp.129-136, Ed. F. M. Mazzolani, A. Wada, STESSA 2006, Ed. Taylor&Francis Group, ISBN: 0-415-40824-5, WOS: 000242847900018, Yokohama, Japonia, 2006;

VOLUMES OF SCIENTIFIC MANIFESTATIONS FROM ABROAD

- e16. Tamas Nagy–Gyorgy, **Marius Mosoarca**, Valeriu Stoian, Janos Gergely, Daniel Dan, “Retrofit of Reinforced Concrete Shear Walls with CFRP Composites”, Proc. Symposium ”Keep Concrete Attractive”, ISBN 963 420 838 X, Budapest, 2005;
- e17. Stoian V., Nagy-Gyorgy T., Daescu C., Dan D. , **Mosoarca Marius**, Diaconu D., “Polymeric composites for seismic rehabilitations-studies and research”, Proc. of the 4th International Scientific Meeting- INDIS 2006, ISBN 86-7892-016-5, Novi Sad, Serbia, 2006;
- e18. Nagy-Gyorgy T., Stoian V., Dan D., Daescu C., Diaconu D., **Mosoarca Marius**, “Research Results on RC Walls and Dapped Beam Ends Strengthened eith FRP Composites”, Proc. of the 8th Int. Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures: FRPRCS-8, Patras, Grecia, 2007;
- e19. Anastasiadis Anthimos, Gioncu Victor, **Mosoarca Marius**, “Design Aspects of Reduced Beam Sections for IPE and HEA European Profiles”, Proc. 5th National Conference on Metal Structures, 29 septembrie -2 octombrie, 2005, Xanthi;
- e20. J. Gyorgyi, Victor Gioncu, **Marius Mosoarca**, “Rövididejü, törésközeli felszínmozgás hatása acél keretszerkezetre”, Proc. Conference on earthquake safety in Hungary, pp. 85-106, ISBN 978-963-7175-33-6; Gyor 2007;
- e21. **Mosoarca Marius**, Gioncu Victor, “Investigations of Historical Spatial Buildings Behaviour” ID156, T5, Proc. Conference Proceedings IASS Venetia, Shell and Spatial Structures: Structural Architecture – Towards the future looking to the past, 3-6 dec., Venetia, Italia 2007;
- e22. Truta Mihnea, **Mosoarca Marius**, Gioncu Victor, International Conference New Trends in Statics and Dynamics of Buildings, “Serviceability limit state for seismic design”, pp.213-217, Conference proceeding, Slovak University, ISBN 80-227-1790-8 Bratislava, octombrie 2002;

- e23. Naghiu Adrian, Florin Cioboiu, **Mosoarca Marius**, Gioncu Victor, "Stability problems for columns in one storied industrial hall", Conference proceeding in "3rd International Conference of New Trends in Statics and Dynamics of Buildings, pp.343-346, Slovak University, ISBN 80-227-2116-6, 21-22 octombrie, Bratislava, Slovacia, 2004;
- e24. Lengyel Tibor, **Mosoarca Marius**, Gioncu Victor, " Stability design of steel trusses" in "3rd International Conference of New Trends in Statics and Dynamics of Buildings", pp. 309-312, Conference proceeding, Slovak University, ISBN 80-227-2116-6, Bratislava, 2004;
- e25. **Mosoarca Marius**, Anastasiadis Anthimos, " Behaviour of RC shears walls with staggereg openings in seismic zones" in "3rd International Conference of New Trends in Statics and Dynamics of Buildings", pp. 321-325, Conference proceeding, Slovak University, ISBN 80-227-2116-6, Bratislava, 2004;
- e26. Gioncu Victor, **Mosoarca Marius**, Anastasiadis Anthimos, "Dynamic modelling of historical buildings", in "4th International Conference of New Trends in Statics and Dynamics of Buildings, pp.281-285, Conference proceeding, Slovak University, ISBN 80-227-2277-4, 20-21 octombrie, Bratislava, 2005;
- e27. Truta Mihnea , **Marius Mosoarca**, Gioncu Victor, "Design methodology of steel structures based on multi-level states", in Proc. "4th National Conference on Steel Structures ", pp. 359-366, vol.II, ISBN 960-7620-25-9, Patras, Grecia, 2002;
- e28. Victor Gioncu, **Marius Mosoarca**, Niculescu Marius, "Behaviour and restauration of historical houses in areas with moderate earthquakes", in Conf. proceedings.: "Seismic risk. Earthquakes in North-Western Europe", pg.175-182, Les Editions de l'Universite de Liege, ISBN 978-2-87456-063-7, Liege, Belgia, 2008;
- e29. Anthimos Anastasiadis, **Marius Mosoarca**, Victor Gioncu, "Local ductility of rolled steel beams", pp. 1185-1190, EUROSTEEL 2011, Conf. proceedings : 6th European Conference on Steel and Composite Structures, Volum B, ISBN: 978-92-9147-103-4 Budapest, Hungary, 31 august – 2 septembrie, 2011;
- e30. **Mosoarca Marius**, Gioncu V., Cosma O., "Seismic Behaviour of Romanian Orthodox Churches. Modeling by Rigid Blocks", in Conf. proceedings: International Conference on Modeling and Simulation ICMS 2012, - World Academy of Science and Technology, Issue 61, pp. 678-686, pISSN 2010-376x ; eISSN 2010-3778, 15-17 ianuarie, Zurich, Elvetia, 2012;
- e31. **Mosoarca Marius**, Stoian V., "Modelling by theoretical and Experimental Analysis of RC Shear Walls with Staggered Openings Subjected to Seismic Actions. Reduction of rigidity", International Conference on Modeling and Simulation ICMS 2012, World Academy of Science and Technology, Issue 61, pp. 687-697, pISSN 2010-376x ; eISSN 2010-3778, 2012, Zurich, Elvetia, 2012;
- e32. **Mosoarca Marius**, "Failure Modeling using Simplified Computational Methods of RC Shear Walls with Staggered Openings Subjected to Seismic Actions", International Conference on Modeling and Simulation ICMS 2012, - World Academy of Science anf Technology, Issue 61 pp. 970-978, pISSN 2010-376x; eISSN 2010-3778, , Zurich, Elvetia, 15-17 ianuarie, 2012;
- e33. Bogdan Demetrescu, Bogdan Isopescu, **Marius Mosoarca**, "A Study of Retrofitting Traditional Shingles and Shakes Roofs on Historical Buildings", PROHITECH'14 - Proceedings of 2nd International conference on Protection of Historical Constructions, Ed.: F.M. Mazzolani, G. Altay, ISBN 978-975-518-361-9, pp.95-99, Antalya, Turcia, 7-9 mai 2014;
- e34. **Marius Mosoarca**, Victor Gioncu†, Anthimos Anastasiadis, Cristian Petrus, "Applications of the Consolidation Methods Developed in the "PROHITECH" Research Program. Consolidation of Historic Wood Churches from Banat Seismic Region, Romania", PROHITECH'14 – Proc. of 2nd International conference on Protection of Historical Constructions, Ed.: F.M. Mazzolani, G. Altay, ISBN : 978-975-518-361-9, pp.681-6877, Antalya, Turcia, mai 2014;
- e35. **Marius Mosoarca**, Victor Gioncu†, Anthimos Anastasiadis, Cristian Petrus, "Seismic Failure Modes Developed by Romanian Orthodox Churches", PROHITECH'14 - Proceedings of 2nd International conference on Protection of Historical Constructions, Ed.: F.M. Mazzolani, G. Altay, ISBN: 978-975-518-361-9, pp.837-842, Antalya, Turcia, 7-9 mai 2014;
- e36. **Marius Mosoarca**, Ioan Andreescu, "Seismic Vulnerability Assessment of Historical Masonry Complex Buildings of Banat Region, Romania", PROHITECH'14 – Conf. proceedings of 2nd International conference on Protection of Historical Constructions, Ed.: F.M. Mazzolani, G. Altay, ISBN: 978-975-518-361-9, pp. 846-849, Antalya, Turcia, 7-9 mai 2014;
- e37. **Mosoarca Marius**, Victor Gioncu, "Historic bearing structures. Sinagogues in Timisoara. Structural degradation", in Conf. proc. 6th International Congress on "Science and technology for the safeguard of cultural heritage in the Mediterranean Basin", ISBN: 978-88-97987-01-7, pp. 70, Atena, Grecia, 22-25 octombrie 2013;
- e38. **Mosoarca Marius**, "Reinforcement of historic multi storey bearing structures with braced metal tubes", Congress on "Science and technology for the safeguard of cultural heritage in the Mediterranean Basin", ISBN: 978-88-97987-01-7, pp.71, Atena, Grecia, 22-25 octombrie 2013;
- e39. **Mosoarca Marius**, Anthimos Anastasiadis, "New factors influencing the failure mechanisms of reinforced concrete buildings located inseismic areas", International Van earthquake symposium, Paper ID:110, pp. 88, Van, Turcia, 2013;

- e40. Anthimos Anastasiadis, **Mosoarca Marius**, Considerations on local ductility of steel framed structures under seismic actions, 2013 International Van earthquake symposium, , Paper ID:37, pp. 45, Van, Turcia, 23 – 27 octombrie 2013;
- e41. A.S. Anastasiadis, **Mosoarca Marius**, F.M. Mazzolani, ” Cyclic and Strain Rate Local”, Proc. 7th European Conference on Steel and Composite Structures, EuroSteel 2014, pp. 599-600 – Abstract volume, ISBN: 978-92-9147-121-8, Napoli, Italia, 10-12 septembrie 2014;
- e42. **Mosoarca Marius**, Petrus Cristian, Stoian Valeriu, Anthimos Anastasiadis, “Seismic risk of buildings with RC frames and masonry infills from Timisoara, Banat Region, Romania: Proc. 9th International Mansonry pp: 512, Paper ID MIE6, ISBN 978-972-8692-85-8, Conference in Guimaraes, Portugalia, 2014;
- e43. Partene Eva, Stoian Valeriu, **Mosoarca Marius**, Fekete-Nagy Luminita, “Cyclic in-plane experimental tests for evaluation of shear capacity of brick masonry walls”, Proc. 9th International Mansonry, Paper ID 1621 pp. 395, ISBN 978-972-8692-85-8, Conference in Guimaraes, Portugalia, 2014;
- e44. **Mosoarca Marius**, Anastasiadis Anthimos, Petrus Cristian, “Structural analysis of synagogues from Timisoara, Romania”, Proc. 9th International Conference on Structural Analysis of historical Constructions, SAHC 2014, Program & abstracts, pp. 120, Mexico City, Mexic, 15-17 Octombrie 2014.

F. OTHER PAPERS AND SCIENTIFIC CONTRIBUTIONS

ARTICLES PUBLISHED IN INTERNATIONAL DATA BASE - SCOPUS

- f1. **Mosoarca Marius**, Gioncu Victor, „Seismic management and damage prevention of religious buildings situated in seismic areas”, Proceedings of the International Conference on Risk Management, Assessment and Mitigation, RIMA '10, pp. 33-38, Bucuresti, 2010;
- f2. **Mosoarca Marius**, Gioncu Victor, „Assessment and mitigation procedures for historical buildings situated in seismic areas”, Proceedings of the International Conference on Risk Management, Assessment and Mitigation, RIMA '10, pp. 27-32; Bucuresti, 2010;
- f3. Anthimos Anastasiadis, **Mosoarca Marius** ”Vulnerability Assessment of R/C Buildings for Earthquake Insurance Purposes”, pp: 126-132, Proceedings of the International Conference RIMA 10, ISBN: 978-960-474-182-3; ISSN: 1790-2769 – Bucuresti, 2010;

ARTICLES PUBLISHED IN JOURNALS OF UNIVERSITIES FROM TIMISOARA, BUCURESTI, IASI, CLUJ-NAPOCA

- f4. **Marius Mosoarca**, Victor Gioncu, “ Ductility aspects of steel beams”, Acta Technica Napocensis: Civil Engineering&Architecture, U.T. Cluj-Napoca, vol.55, nr.1, 2012;

ARTICLES PUBLISHED IN JOURNALS OF OTHER UNIVERSITIES

- f5. **Mosoarca Marius**, Truta Mihnea, Gioncu Victor “Analiza seismica a cladirilor monument istoric cu ajutorul M.E.F.” pp. 177-182, Editura “Academica Brincusi”, Sectia 1, ISBN 973-85342-1-6, 2001;
- f6. Truta Mihnea, **Mosoarca Marius**, Gioncu Victor “Metodologia de proiectare antiseismica bazata pe nivele multiple” pp. 183-188, Editura “Academica Brincusi”, Sectia 1, ISBN 973-85342-1-6, 2001;
- f7. **Mosoarca Marius**, Truta Mihnea, Gioncu Victor “Influenta golurilor asupra comportarii sesmice a peretilor structurali din beton armat” pp. 195-200, Ed. “Academica Brincusi”, Sectia 1, ISBN 973-85342-1-6, 2001;
- f8. **Mosoarca Marius**, Stoian Valeriu, Truta Mihnea, “Nonlinear Analysis of Seismic Behavior of R.C. Shear Walls with Straggered Openings”, pp.120-126, Ovidius University Annals of Constructions, Vol. 1, Number 3, ISSN:12223-7221, 2002;
- f9. Truta Mihnea, **Mosoarca Marius**, Victor Gioncu, “Seismic Behavior of Steel Structures for serviceability Limit State” pp. 177-182, Ovidius University Annals of Constructions, Vol. 1, Nr 3, ISSN12223-7221, Constanta, 2002;
- f10. **Mosoarca Marius**, Valeriu Stoian, “Seismic energy dissipation in structural reinforced concrete walls with staggered openings”, Journal of applied engineering sciences (JAES),Vol.2(15) Issue 1/2012, pp. 65-72, revista de categoria B+, indexat BDI – Copernicus, mai, 2012;
- f11. Narita Alina-Maria, **Mosoarca Marius**, “The valorisation of historical sites through architectural interventions”, Journal of applied engineering sciences, Vol. 2(15), issue 2, ISSN 2247- 3769 ISSN-L 2247-3769 (Print) / e-ISSN: 2284-7197, pp. 69-76, Oradea, 2012.

SCIENTIFIC JOURNALS FROM ROMANIA

- f12. **Marius Mosoarca**, Victor Gioncu, “Bisericile de lemn monument istoric din Banat. Degradari structurale. Solutii de consolidare”, revista “Transsylvania Nostra”, nr.4, ISSN 1842-5631, Cluj-Napoca, vol.55, nr.1, 2012;
- f13. Nagy-Gyorgy T., **Mosoarca Marius**, Stoian V., Dan D., “Consolidarea peretilor din beton armat cu materiale composite”, Simpozion AICPS, Bucuresti 2005, Buletin AICPS 3/2006;
- f14. Nagy-Gyorgy T., Stoian V., Diaconu D., Daescu C., Dan D., Sas G., **Mosoarca Marius**, “Pereti din beton armat si capete de grinzi consolidate cu materiale composite-rezultatele incercarilor”, Buletin AICPS, nr.1/2007;
- f15. Gioncu Victor, **Mosoarca Marius**, Brateanu Alina “City Business Centre Timisoara” Premiul III, Buletin AICPS, nr.1-2/2008, pp.1-6, ISSN:1454-928x, Bucuresti, Romania, 2008;
- f16. Victor Gioncu, **Marius Mosoarca**, “Influenta componentelor verticale la cladirile istorice cu deschideri mari”, Buletin A.I.C.P.S. 3/2006, Bucuresti, 2006.

VOLUMES OF INTERNATIONAL SCIENTIFIC MANIFESTATIONS ORGANIZED IN ROMANIA

- f17. **Mosoarca Marius**, Lazea Lucian, Gioncu Victor, “Slim floor with ceramics or concrete blocks for steel structures”, pp. 593-598, The 9-th International Conference on Metal Structures, Ed. Horizonturi Universitare Timisoara, ISBN:973-8109-17-5, Timisoara, 2000;
- f18. Anastasiadis Anthimos, **Mosoarca Marius**, “ Multi Level Earthquake Design of Steel Frames: a Designers’ View”, Recent Advances and New Trends in Structural Design, Colloquium dedicated to the 70th anniversary of Prof. Victor Gioncu, pp. 307-315, ISBN: 973-638-119-6, Timisoara, 7-8 mai 2004;
- f19. Stoian V., Dan D., **Mosoarca Marius**, Nagy-Gyorgy T., “Experimental Studies on Structural Elements”, Recent Advances and New Trends in Structural Design, Victor Gioncu Anniversary Colloquium, pp. 283-294, ISBN: 973-638-119-6, Timisoara, 2004;
- f20. Nagy-Gyorgy T., Stoian V., Dan D., Daescu C., Diaconu D., **Mosoarca Marius**, “Seismic retrofit of masonry and rc elements with FRP composites-research and applications”, ISSR07, Bucuresti, 2007;
- f21. Gioncu Victor, **Mosoarca Marius**, “Methods for structural analysis of historical buildings”, Civil Engineering Proceeding of the International Conference Constructions 2008, “Methods for Structural Analysis of Historical Buildings”, Acta Technica Napocensis, Section Civil Engineering-Architecture, pp. 137-144, Vol III, 2008, ISSN 1221-5848, Cluj-Napoca, 9-10 mai 2008;
- f22. Dan D., Nagy-Gyorgy T., Stoian V., **Mosoarca Marius**, Pavlou D., “Experimental study on reinforced concrete shear walls retrofitted with CFRP composites”, Computational and Experimental Analysis of Damaged Materials, Transworld Research Network, vol. 1, pp. 155-166, 2007;
- f23. Hetes Dorel, David Ioan, **Mosoarca Marius**, “The risk and vulnerability of the hydrotechnical arrangement Bega Timisoara”, The 33-th Annual Congress of the American Romanian Academy of Arts and Sciences, Sibiu, 2-7 iunie 2009, Ed. Polytechnic International Press Montreal, Quebec Canada, pp. 93-96, Vol. II, 2009;
- f24. **Mosoarca Marius**, Victor Gioncu, Ovidiu Cosma, “Seismic Behaviour of religious historical buildings on domes and pendants”, pp.43-52, Buletinul Stiintific al Universitatii Politehnica din Timisoara, Seria Constructii-Architectura, Tomul 55(69), Fascicola 1, ISSN:1224-6026, Editura Politehnica, 2010;
- f25. Boltres Cristian, **Mosoarca Marius**, “Banat-Romania Industrial past sustainable, environmentally friendly and profitable future”, pp. 242, in Proc. International UAB BENA Conference, Environmental Engineering and sustainable development, Editura Aeternitas, ISBN: 978-606-613-002-8, Alba-Iulia, Romania, 26-27 mai, 2011;
- f26. Cosma Ovidiu, **Mosoarca Marius**, “Ecologic methods of restauration of historical churches”, pp. 247, International UAB BENA Conference, Environmental Engineering and sustainable development, Ed. Aeternitas, ISBN:978-606-613-002-8, Alba-Iulia, Romania, 26-27 mai, 2011;
- f27. Cosma Ovidiu, **Mosoarca Marius**, “Sustainable restauration of historical churches”, pp. 246, International UAB BENA Conference, Environmental Engineering and sustainable development, Ed. Aeternitas, ISBN: 978-606-613-002-8, Alba-Iulia, Romania, 26-27 mai, 2011;
- f28. Voicu Fodor, **Mosoarca Marius**, “Ecological bearing structures. Historical wooden churches of Banat environmentally friendly restauration. Methods of wooden churches in Banat”, pp. 248, International UAB BENA Conference, Environmental Engineering and sustainable development, Ed. Aeternitas, ISBN:978-606-613-002-8, Alba-Iulia, Romania, 26-27 mai, 2011;
- f29. Victor Gioncu, **Mosoarca Marius**, “A grid for an atrium roof”, Proceedings of 6th International Conference on Thin Walled Structures. Recent research advances and trends”, Vol. 2, pp. 905-912, Ed. ECCS – European Convention for Constructional Steelwork, ISBN: 978-92-9147-102-7, Timisoara, 2011.

VOLUMES OF NATIONAL OR LOCAL SCIENTIFIC MANIFESTATIONS

- f30. Nagy-Gyorgy T., Stoian V., **Mosoarca Marius**, Gergely J., Dan D., “Calculul peretilor din beton armat consolidate cu composite”, Zilele Academiei Timisene, pp. 427-432, ISBN 973-661-652-5, Timisoara, 2005;
- f31. Stoian V., Nagy-Gyorgy T., Daescu C., Dan D., **Mosoarca Marius**, Diaconu D., Sas D., “Composite polimerice pentru reabilitari seismice-studii si cercetari”, Conferinta Nationala de Inginerie Seismica III, Bucuresti, 2005;
- f32. Gioncu Victor, **Mosoarca Marius**, Palade Cristian, “Solutii de consolidare cu fibre de carbon a structurilor din beton armat situate in zone seismice si puternic degradate in procesul de exploatare”, Zilele academice timisene, ”Lucrarile simpozionului international – Materiale, elemente si structuri composite pentru constructii” Editia a IX-a, pp. 405-410, Ed. Mirton 2005, ISBN 973-661-65-5, 26-27 mai Timisoara, 2005;
- f33. Nagy-Gyorgy T., Stoian V., **Mosoarca Marius**, Dan D., “ Pereti structurali din beton armat consolidati cu composite - Primele incercari experimentale”, Zilele Academice Timisene, Timisoara, 2003;
- f34. Marin Marin, **Mosoarca Marius**, “Sistem mixt de fundare pe piloti perimetrari si radier general”; a XI-A Conferinta Nationala de geotehnica si fundatii, pp.214-222, Cluj-Napoca, 27-29 septembrie 2000;
- f35. Marin Marin, Pantea Petru, **Mosoarca Marius**, “Aspecte privind consolidarea fundatiilor pe piloti prefabricati la o constructie in cadre din beton armat”; a XI-A Conferinta Nationala de geotehnica si fundatii, pp. 203-213, Cluj-Napoca, 27-29 septembrie 2000;
- f36. Lazea Lucian, **Mosoarca Marius**, Gioncu Victor, , “Consolidarea Manastirii Sf.Gheorghe Birda-Jud.Timis” “Zilele Academiei Timisene, Editia a VIII-a, Simpozion “Materiale, elemente si structuri composite/compuse pentru constructii”, Ed. Mirton, Timisoara, 24-25 mai, 2001;
- f37. Marin Marin, **Mosoarca Marius**, “Sistem mixt de fundare pe piloti perimetrari si radier general”, A IX-a conferinta nationala de geotehnica si fundatii”, Cluj Napoca, 27-29 septembrie 2000;
- f38. Marin Marin, Petru Pantea, **Mosoarca Marius**, “Aspecte privind consolidarea fundatiilor pe piloni prefabricati la o constructie in cadre din beton armat”, A IX-a conferinta nationala de geotehnica si fundatii”, Cluj Napoca, 27-29 septembrie 2000;
- f39. **Mosoarca Marius**, Stoian Valeriu, “Comportarea diaframelor cu goluri decalate la actiuni seismice”; Zilele Academiei Timisene, Editia a VII-a, Simpozion “Materiale, elemente si structuri composite/compuse pentru constructii”, Ed. Mirton,, Timisoara, 24-25 mai, 2001;
- f40. Gioncu Victor, **Mosoarca Marius**, Niculescu Marius, Cioboiu Florin “ Comportarea seismica a cladirilor istorice de locuit”, pp. 213-218, Zilele Academiei Timisene, Editia a X-a, Simpozion International “Composite Materials, elements and structures for construction”, Ed. Politehnica, ISSN 1843-0910, Timisoara, 24-25 mai 2007;
- f41. Gioncu Victor, **Mosoarca Marius**, Anastasiadis Anthimos, “Structuri prefabricate din beton in zone seismice: analiza avariilor produse”, pp 39-52, Societatea pentru beton si prefabricate din Romania, Conferinta: Structuri prefabricate din beton in centrul si estul Europei, ISBN 978-973-662-329-5, Cluj Napoca, 8-9 noiembrie 2007;
- f42. Victor Gioncu, **Mosoarca Marius**, Alina Brateanu, “Complexul de birouri City Business Centre” Timisoara”, pp. 251-262, Realizari si preocupari actuale in ingineria constructiilor metalice, Lucrarile celei de-a 12-a Conferinte Nationale de Constructii Metalice, Editura Orizonturi Universitare Timisoara, ISBN: 978-973-638-464-6, Timisoara, 26-27 noiembrie 2010;
- f43. Vlad Gaivoronschi, Ioan Andreescu, **Mosoarca Marius**, “Working in the Attic. Complex Restoration and Reconversion of an Historic Attic Structure in Timisoara, Romania”, C60 International Conference, “Tradition and Inovation – 60 Years of Civil Engineering Higher Education in Transilvania”, pp. 287,288, ISBN: 978-973-662-903-7, Cluj-Napoca, 7-9 noiembrie 2013.

COURSES AND LABORATORY GUIDES

- f44. **Mosoarca Marius**, V. Gioncu, “ Arhitectura antiseismica”, curs an. V, sem.2, U.P. Timisoara, 2010;
- f45. **Mosoarca Marius**, V. Gioncu, A. Anastasiadis, “ Estetica structurilor”, curs an VI, sem.1. U.P.Timisoara, 2014;
- f46. **Mosoarca Marius** “ Proiectarea cladirilor cu pereti structurali din beton armat”, Editura Mirton, ISBN: 978-973-52-0589-8, Timisoara, 2009;
- f47. **Mosoarca Marius**, V. Gioncu, A. Anastasiadis, “Estetica structurilor”, seminar an VI, sem.1. U.P.Timisoara, format electronic pentru uzul studentilor, 2014;

ARTICLES CITED IN ISI JOURNALS

- f48. **Mosoarca Marius**, “Seismic behaviour of reinforced concrete shear walls with regular and staggered openings after the strong earthquakes between 2009 and 2011, Journal of Engineering Failure Analysis, Editura Elsevier, DOI:10.1016/j.engfailanal.2013.05.014” in revista *Energy and Buildings*, 2014 Editura

- Elsevier de catre: P Foraboschi, M Mercanzin, D Trabucco, "Sustainable structural design of tall buildings based on embodied energy" Volum 68, Part A, pp. 254–269, DOI: 10.1016/j.enbuild.2013.09.003, 2014;
- f49. **Mosoarca Marius**, "Seismic behaviour of reinforced concrete shear walls with regular and staggered openings after the strong earthquakes between 2009 and 2011", Engineering Failure Analysis, Ed. Elsevier, DOI:10.1016/j.engfailanal.2013.05.014", in articolul publicat de C. Todut, D. Dan, V. Stoian "Theoretical and experimental study on precast reinforced concrete wall panels subjected to shear force" in *Engineering Structures*, 80, pp.323–338, <http://dx.doi.org/10.1016/j.engstruct.2014.09.019>, Ed. Elsevier, 2014;
- f50. Victor Gioncu, **Marius Mosoarca**, Anthimos Anastasiadis, „Prediction of available rotation capacity and ductility of wide-flange beams: Part 1: DUCTROT-M computer program”, publicat in Journal of Constructional Steel Research 69 (2012) pp. 8-19, doi:10.1016/j.jcsr.2011.06.014, ISSN: 0143-974X, Editura Elsevier in revista *Journal of Constructional Steel Research* Vol. 90, pp. 60–71, de catre: Esra M. Güneysi, M. D'Aniello, R. Landolfo, K. Mermerdaş "A novel formulation of the flexural overstrength factor for steel beams", 2013;
- f51. Victor Gioncu, **Marius Mosoarca**, Anthimos Anastasiadis, „Prediction of available rotation capacity and ductility of wide-flange beams: Part 1:DUCTROT-M computer program”, publicat in Journal of Constructional Steel Research 69 (2012) pp. 8-19, doi:10.1016/j.jcsr.2011.06.014, ISSN: 0143-974X, Ed. Elsevier in revista *Thin Wall Structures*, de catre: M. D'Aniello, E. Mete Güneysi, R. Landolfo, K. Mermerdaş "Analytical prediction of available rotation capacity of cold-formed rectangular and square hollow section beams", 2013;
- f52. Victor Gioncu, **Marius Mosoarca**, Anthimos Anastasiadis, „Prediction of available rotation capacity and ductility of wide-flange beams: Part 1:DUCTROT-M computer program”, publicat in *Journal of Constructional Steel Research* 69 (2012) pp. 8-19, doi:10.1016/j.jcsr.2011.06.014, ISSN: 0143-974X, Ed. Elsevier in revista *Thin Wall Structures*, de catre: V. Gioncu, A. Anastasiadis "Plastic coupled instabilities of I-shaped steel beams", volum 81, pp. 67-77, 2013;
- f53. Anthimos Anastasiadis, **Marius Mosoarca**, Victor Gioncu, "Prediction of available rotation capacity and ductility of wide-flange beams: Part 2: Applications" - Journal of Constructional Steel Research, Ed. Elsevier, Volum 68, Issue 1, ianuarie 2012, pp. 176–191, <http://dx.doi.org/10.1016/j.jcsr.2011.08.007> in Classification of I-section flexural members based on member ductility, Shokouhian, M., Shi, Y., *Journal of Constructional Steel Research*, Vol.95, pp.198–210, <http://dx.doi.org/10.1016/j.jcsr.2013.12.004>, 2014;
- f54. Anthimos Anastasiadis, **Marius Mosoarca**, Victor Gioncu, "Prediction of available rotation capacity and ductility of wide-flange beams: Part 2: Applications", Journal of Constructional Steel Research, Editura Elsevier, Volum 68, Issue 1, ianuarie 2012, pp.176–191, <http://dx.doi.org/10.1016/j.jcsr.2011.08.007> in Energy absorption of reinforced concrete deep beams strengthened with CFRP sheet, M. Panjehpour, A. A. Abang Ali and F. N. Aznieta, Volume 16, nr.5, *Steel and Composite Structures*, pp. 481-489, DOI: 10.12989/scs.2014.16.5.481, mai, 2014;
- f55. A. Anastasiadis, **Marius Mosoarca**, Victor Gioncu, "Prediction of available rotation capacity and ductility of wide-flange beams: Part 2: Applications", Journal of Constructional Steel Research, Editura Elsevier, Volum 68, Issue 1, ianuarie 2012, pp. 176–191, <http://dx.doi.org/10.1016/j.jcsr.2011.08.007> in *Thin Wall Structures* 77, de catre: M. D'Aniello, E. M. Güneysi, R. Landolfo, K. Mermerdaş "Analytical prediction of available rotation capacity of cold-formed rectangular and square hollow section beams", pp. 141-152, 2014;
- f56. Anthimos Anastasiadis, **Marius Mosoarca**, Victor Gioncu, "Prediction of available rotation capacity and ductility of wide-flange beams: Part 2: Applications", Journal of Constructional Steel Research, Editura Elsevier, Volum 68, Issue 1, ianuarie 2012, pp. 176–191, <http://dx.doi.org/10.1016/j.jcsr.2011.08.007> in revista Journal of Constructional Steel Research Vol. 90, 2013, pp. 60–71, de catre: E. M. Güneysi, M. D'Aniello, R. Landolfo, K. Mermerdaş "A novel formulation of the flexural overstrength factor for steel beams", 2014;
- f57. Janos Gergely, Victor Gioncu, **Marius Mosoarca**, "Behaviour of steel MRFs subjected to near-fault ground motions", Behaviour of Steel Structures in Seismic Areas, pp.129-136, Ed: F. M. Mazzolani, A. Wada, STESSA 2006, Taylor&Francis Group, London, ISBN: 0-415-40824-5, WOS: 000242847900018 in revista *Thin Wall Structures* 2013, de catre: V. Gioncu, A. Anastasiadis "Plastic coupled instabilities of I-shaped steel beams", vol. 81, pp. 67-77, 2013;
- f58. Victor Gioncu, **Marius Mosoarca**, Anthimos Anastasiadis, „Prediction of available rotation capacity and ductility of wide-flange beams: Part 1: DUCTROT-M computer program”, publicat in Journal of Constructional Steel Research 69 (2012) pp. 8-19, doi:10.1016/j.jcsr.2011.06.014, ISSN: 0143-974X, Ed. Elsevier in revista *Advanced Material Research* 2013, vol.710, pp. 372-375 de catre: I.M. Cristutiu, A. Dogariu "Local and Global Stability of I Steel Members with Tapered Web via Advanced Nonlinear Analysis" 2013;
- f59. Victor Gioncu, **Marius Mosoarca**, Anthimos Anastasiadis, „Prediction of available rotation capacity and ductility of wide-flange beams: Part 1:DUCTROT-M computer program”, publicat in Journal of Constructional Steel Research 69 (2012) pp. 8-19, doi:10.1016/j.jcsr.2011.06.014, ISSN: 0143-974X, Ed. Elsevier in *Journal of Engineering Mechanics* vol.31, no.6, de catre F. Bo, T. Gen-Shu "Ductility factors of I-Section and section classification for aseismic design", pp. 173-181, doi: 10.6052/j.issn.1000-4750.2012.12.1013, 2014;

- f60. Janos Gergely, Victor Gioncu, **Marius Mosoarca**, “Behaviour of steel MRFs subjected to near-fault ground motions”, *Behaviour of Steel Structures in Seismic Areas*, pp.129-136, Ed: F.M. Mazzolani, A. Wada, STESSA 2006, Ed. Taylor&Francis, London, ISBN: 0-415-40824-5, WOS: 000242847900018 in *Thin Walled Structures*, V. Gioncu, A. Anastasiadis, “Plastic coupled instabilities of I- shaped steel beams”, vol. 81, pp. 67-77, 2013;
- f61. Anthimos Anastasiadis, **Marius Mosoarca**, Victor Gioncu, “Prediction of available rotation capacity and ductility of wide-flange beams: Part 2: Applications”, *Journal of Constructional Steel Research*, Ed. Elsevier, Vol. 68, Issue 1, 2012, pp. 176–191, <http://dx.doi.org/10.1016/j.jcsr.2011.08.007> in M. Panjehpour, A. A. Abang Ali and F. N. Aznieta, Energy absorption of reinforced concrete deep beams strengthened with CFRP sheet, *Steel and Composite Structures*, Vol. 16, Nr.5, pp.481-489, DOI: <http://dx.doi.org/10.12989/scs.2014.16.5.481>, 2014;
- f62. Mihnea Truta, **Marius Mosoarca**, Victor Gioncu, Anthimos Anastasiadis, “Optimal design of steel structures for multi –level criteria” din Proceedings of the conference on behaviour of steel structures in seismic area, 2003, pp.63-69, in *Journal of Constructional Steel Research* 62(2005), Hiroyuki Tamai, Takao Takamastu, “Cyclic loading tests on a non-compression brance considering performance-based seismic design”, pp.1301-1317, 2005;
- f63. Nagy-Gyorgy T., **Marius Mosoarca**, Stoian V., Gherghely J., Dan D., “Retrofit of reinforced concrete shear walls with CFRP composites” din Proceedings of the fib Symposium ”Keep concrete Attractive”, Budapest, Ungaria, 23-25 mai 2005, pp.897-902, in Elsevier-Science Direct - *Composites Part B:Engineering* (2007), doi:10.1016/j.compositesb.2007.05.002, F. Ceroni, M. Pecce, S. Matthys, L. Taerwe, “Debonding strength and anchorage devices for reinforced concrete elements strengthened with FRP sheets”, 2007;
- f64. Nagy-Gyorgy T., **Marius Mosoarca**, Stoian V., Gherghely J., Dan D., “Retrofit of reinforced concrete shear walls with CFRP composites” din Proceedings of the fib Symposium”Keep concrete Attractive”, Budapest, Hungary, 23-25 mai 2005, pp.897-902, in *Journal of composites for construction ASCE*, septembrie/octombrie 2010, doi:10.1061/(ASCE)CC.1943-5614.0000118, F. Ceroni, M. Pecce, in “Evaluation of Bond Strength in Concrete Elements Externally Reinforced with CFRP Sheets and Anchoring Devices”, 2010 ;
- f65. Nagy-Gyorgy T., **Marius Mosoarca**, Stoian V., Gherghely J., Dan D., “Retrofit of reinforced concrete shear walls with CFRP composites” din Proceedings of the fib Symposium”Keep concrete Attractive”, Budapest, Hungary, 23-25 mai 2005, pp.897-902, in *International Journal of Concrete Structures and Materials*, Vol.7, No.1, March 2013, DOI 10.1007/s40069-013-0029-0, S. V. Grelle, L. H. Sneed, in “Review of Anchorage Systems for Externally Bonded FRP Laminates”, 2013;
- f66. Nagy-Gyorgy T., **Marius Mosoarca**, Stoian V., Gherghely J., Dan D., “Retrofit of reinforced concrete shear walls with CFRP composites” din Proceedings of the fib Symposium ”Keep concrete Attractive”, Budapest, Ungaria, 23-25 mai 2005, pp.897-902 in *Engineering Structures*; Volumul 45, decembrie 2012; <http://dx.doi.org/10.1016/j.engstruct.2012.06.037>, ISSN 0141-0296 , pp. 338-348, Dan Daniel “Experimental tests on seismically damaged composite steel concrete walls retrofitted with CFRP composites” 2012;
- f67. Nagy-Gyorgy T., **Marius Mosoarca**, Stoian V., Gherghely J., Dan D., “Retrofit of reinforced concrete shear walls with CFRP composites” din Proceedings of the fib Symposium ”Keep concrete Attractive”, Budapest, Ungaria, 23-25 mai 2005, p.897-902, in *International Review of Applied Sciences and Engineering*, Volumul 2, Numarul 1, iunie 2011, doi:10.1556/IRASE.2.2011.1.3, publicat de: *Akademiai Kiado*, ISSN: 2062-0810, pp. 19-24, I. Demeter, Tamas Nagy-Gyögy, Valeriu Stoian, C. Dăescu, Daniel Dan, “Strenghtening strategies using FRP composites for precast RC wall panels with cut-out openings”, 2011;
- f68. **Marius Mosoarca**, Victor Gioncu, „Structural safety of istorical buildings made of reinforced concrete, from Banat region - Romania”, *Journal of Cultural Heritage*, Vol. 14, Issue: 3, pp. E29-E34, Supplement: S, DOI: 10.1016/j.culher.2012.11.015, 2013, WOS: 000327013800006, ISSN: 1296-2074, eISSN: 1778-3674, IDS Number: 252NR in articolul F. De Luca, G. M. Verderame, G. Manfredi “Eurocode-based seismic assessment of modern heritage RC structures: The case of the Tower of the Nations in Naples (Italy)” *Engineering Structures* ,Vol. 74, pp.96–110, DOI: 10.1016/j.engstruct.2014.05.015, septembrie 2014;
- f69. **Marius Mosoarca**, Victor Gioncu, “Assesment and mitigation procedures for historical buildings situated in seismic areas” din Proceedings of the International Conference of Risk Management, Assesment and Mitigation (RIMA’10) - Recent Advances in Risk Management, Assesment and Mitigation, Bucuresti, Romania, 20-22 aprilie, 2010, ISSN: 1790-2769, ISBN: 978-960-474-182-3, publicat de WSEAS Press 2010, in *Journal of Cultural Heritage* DOI: 10.1016/j.culher.2012.11.031, ISSN: 12962074, pp. e1-e6, Radoslav Radu, Branea Ana-Maria, Găman Marius Stelian, “Rehabilitation through a Holistic Revitalization Strategy of Historical City Centres – Case Study Timisoara, Romania”, 2012;
- f70. Kampouris, A, Anastasiadis Anthimos, **Mosoarca Marius**, „Environmental impact assessment and evaluation of road construction works in forest ecosystems”, *Journal of environmental protection and ecology*, Vol.: 14 Issue: 2 pp: 753-760, 2013, WOS:000321796500041, ISSN: 1311-5065, IDS Number: 183EG, in articolul publicat de Torok, Z. C., “Monitoring of reproduction migration in areas of the lower Danube region”, *Journal of Environmental Protection and Ecology*, Vol. 15, Issue 2, pp. 478-487, ISSN: 1311-5065, WOS: 000339362500009, 2014 ;

- f71. Anthimos Anastasiadis, **Mosoarca Marius** "Vulnerability Assessment of R/C Buildings for Earthquake Insurance Purposes", pp: 126-132, WSEAS, Recent Advances in Risk Management, Assessment and Mitigation, Proceedings of the International Conference RIMA 10 Bucuresti, 20-22 aprilie 2010, ISBN: 978-960-474-182-3; ISSN: 1790-2769, in articolul publicat de Hanak T., Korytarova J., Risk zoning in the context of insurance: Comparison of flood, snow load, windstorm and hailstorm, *Journal of Applied Engineering Science*, Vol 12, Issue 2, pp. 137-144, ISSN: 14514117, DOI: 10.5937/jaes12-6098, 2014;

ARTICLES CITED IN ISI CONFERENCE PROCEEDINGS

- f72. Nagy-György T., Stoian V., Dan D., Dăescu C., Diaconu D., Sas G., **Marius Mosoarca**, "Research Results on RC Walls and Dapped Beam Ends Strengthened with FRP Composites" in Latest Trends on Engineering Mechanics, Structures, Engineering Geology, ISSN: 1792-4294; ISBN: 978-960-474-203-5, pp. 261-265, Dan Diaconu, Valeriu Stoian, Sorin-Codrut Florut, "Anchoring Influence in RC Beams Flexural Strengthening Using CFRP Lamellas";
- f73. Citare articol: Nagy-György T., Stoian V., Dan D., Dăescu C., Diaconu D., Sas G., **Marius Mosoarca**, "Research Results on RC Walls and Dapped Beam Ends Strengthened with FRP Composites" in CICE 2010 - The 5th International Conference on FRP Composites in Civil Engineering, 27-29 septembrie, 2010 Beijing, China, DOI: 10.1007/978-3-642-17487-2_184, Print ISBN: 978-3-642-17486-5, Online ISBN:978-3-642-17487-2, M. Asfa, D. Mostofinejad , N. Abdoli, "Effect of FRP strengthening on the behavior of shear walls with opening", 2010;
- f74. Nagy-György T., **Marius Mosoarca**, Stoian V., Gherghely J., Dan D., "Retrofit of reinforced concrete shear walls with CFRP composites" din Proceedings of the fib Symposium "Keep concrete Attractive", Budapest, Hungary, 23-25 mai 2005, pp.897-902 in 12th WSEAS International Conference on SYSTEMS, Heraklion, Greece, 22-24 iulie, 2008, ISBN: 978-960-6766-83-1; ISSN: 1790-2769, pp. 813-820, István Demeter, Tamás Nagy-György, Valeriu Stoian, Daniel Dan, "Quasi-Static Loading Strategy for Earthquake Simulation on Precast RC Shear Walls" 2008 ;
- f75. Nagy-György T., **Marius Mosoarca**, Stoian V., Gherghely J., Dan D., "Retrofit of reinforced concrete shear walls with CFRP composites" din Proceedings of the fib Symposium "Keep concrete Attractive", Budapest, Hungary, 23-25 May 2005, p.897-902 in 7th International Conference on Behaviour of Steel Structures in Seismic Areas (STESSA) Location: Santiago, Chile, 9-11 ianuarie, 2012, ISBN: 978-0-415-62105-2, pp. 1071-1076, Dan, D.; Nagy-György, T. ; Stoian, V.; et al., "FRP composites for seismic retrofitting of steel-concrete shear walls with steel encased profiles", 2012;
- f76. Victor Gioncu, **Mosoarca Marius**, "Seismic review of historical structure" in Structural Analysis of Historical Constructions- J. Jasienko (ed.), 2012, DWE, Polonia, SAHC 2012, ISSN: 0860-2395, ISBN: 978-83-7125-216-7, pp. 1114-1118, in Victor Gioncu, Bogdan Demetrescu, "Historical structures in the Romanian Banat Area", SAHC, Vol. 1-3 Pp: 1114-1118, WOS:000321224300124, ISBN: 978-83-7125-216-7, 8th International Conference on Structural Analysis of Historical Constructions, SAHC 2012, 2012;
- f77. **Marius Mosoarca**, Victor Gioncu, "Assesment and mitigation procedures for historical buildings situated in seismic areas" din Proceedings of the International Conference of Risk Management, Assesment and Mitigation (RIMA'10)- Recent Advances in Risk Management, Assesment and Mitigation, Bucharest, Romania, 20-22 aprilie, 2010, ISSN: 1790-2769, ISBN: 978-960-474-182-3, publicat de WSEAS Press 2010, in Latest Trends on Engineering Mechanics, Structures, Engineering Geology, 3rd WSEAS International Conference on Mechanics, Structures, Engineering Geology (EMESEG'10), Corfu, Grecia, 22-24 iulie, 2010, ISSN: 1792-4294, ISBN: 978-960-474-203-5, G. Breazu, C. Dumitrescu, "Fire Risks in the Field of Architecture and Urban Planning Design Process of the Civil Constructions, Manangement, Evaluation and Control", pp.23-38, 2010;
- f78. **Marius Mosoarca**, Victor Gioncu, "Seismic management and damage prevention of religious buildings situated in seismic areas" din Proceedings of the International Conference of Risk Management, Assesment and Mitigation (RIMA'10)- Recent Advances in Risk Management, Assesment and Mitigation, Bucharest, Romania, 20-22 aprilie, 2010, ISSN 1790-2769, ISBN 978-960-474-182-3, publicat de WSEAS Press 2010, in Latest Trends on Engineering Mechanics, Structures, Engineering Geology, 3rd WSEAS International Conference on Mechanics, Structures, Engineering Geology (EMESEG'10), Corfu, Grecia, 22-24 iulie, 2010, ISSN:1792-4294, ISBN: 978-960-474-203-5, G. Breazu, C. Dumitrescu, "Fire Risks in the Field of Architecture and Urban Planning Design Process of the Civil Constructions, Manangement, Evaluation and Control", pp.23-38, 2010;
- f79. **Mosoarca Marius**, "Seismic behaviour of reinforced concrete shear walls with regular and staggered openings after the strong earthquakes between 2009 and 2011, Journal of Engineering Failure Analysis, Editura Elsevier, DOI:10.1016/j.engfailanal.2013.05.014" in revista Advances in Engineering Mechanics and Materials, C. Todut, D. Dan, and V. Stoian, "TRM strengthening of precast reinforced concrete wall panel with cut-out opening - experimental investigation", pp. 110-116, ISBN: 978-1-61804-241-5, Proceedings of the 2014 International Conference on Civil Engineering (CIVILENG2014) Santorini Island Greece, 17-21 iulie, 2014;

ARTICLES CITED IN INTERNATIONAL DATA BASE CONFERENCE PROCEEDINGS

- f80. **Marius Mosoarca**, Victor Gioncu, Assessment and mitigation procedures for historical buildings situated in seismic areas, (2010) Proceedings of the International Conference on Risk Management, Assessment and Mitigation, RIMA '10, pp. 27-32 in WSEAS Transactions on Information Science and Applications 7, Mircea A.T., Crutescu R., "Research contributions to the seismic performance of ICF technology wall systems", pp 1240-1250, 2010 - SCOPUS;
- f81. Janos Gergely, Victor Gioncu, **Marius Mosoarca**, "Behaviour of steel MRFs subjected to near-fault ground motions", Behaviour of Steel Structures in Seismic Areas, pp.129-136, Ed.: F. M. Mazzolani, Akira Wada, STESSA 2006, Taylor&Francis Group, London, ISBN: 0-415-40824-5, WOS: 000242847900018 in Civil-Comp Proceedings 93 J, Gyorgyi, "Corrected ground motion functions in the case of a near-fault earthquake" 2010 – SCOPUS;
- f82. **Marius Mosoarca**, Gioncu Victor, Niculescu Marius "Strengthening of a historical apartment building by the insertion of steel seismic-resistant", PROHITECH 09, Roma, 2009, Ed: F.M. Mazzolani, pp. 1335-1340, 2009, WOS: 000280544200206, ISBN: 978-0-415-55803-7, IDS Number: BQB06, in RIMA '10, Andreescu I., Gaivoronschi V., "Complex risk management strategies during restauration and reconversion at an XVIIIth century building complex in Timisoara", pp. 138-143, 2010 – SCOPUS;
- f83. Anthimos Anastasiadis, **Marius Mosoarca**, Victor Gioncu, "Prediction of available rotation capacity and ductility of wide-flange beams: Part 2: Applications", Journal of Constructional Steel Research, Ed. Elsevier, Vol. 68, Issue 1, 2012, pp. 176–191, in Structural Stability Research, "New proposal for classification of steel flexural members based on member ductility", M. Shokouhian, Shi, Y, J., 2014 – SCOPUS;
- f84. **Marius Mosoarca**, "Seismic behavior of reinforced concrete shear walls with staggered openings after the strong earthquakes between 2009 and 2011", Engineering Failure Analysis, Ed. Elsevier, DOI:10.1016/j.engfailanal.2013.05.014 in Todut C., Stoian V., Dan D., "Experimental assessment of fip strengthening strategies for precast rc wall panels", in Proc. 12th International Conference on Steel, Space and Composite Structures, Prague; Czech Republic, 28-30 May 2014 – SCOPUS.

INTERNATIONAL RESEARCH GRANTS

- f85. **PROHITECH-W.P. 9 Development of Calculation Models, Prohitech – Earthquake Protection of Historical Buildings by Reversible Mixed Technologies** – membru in echipa de cercetare;
- f86. **CAMUS III INTERNATIONAL BENCHMARK, TMR-ECOEST2 and ICONS Post-FramCoS-4 Workshop " Seismic loading effect on structural walls"** American Concrete Institut ACI, 2001 – membru in echipa de cercetare;
- f87. **PREC 8: Human capital and mobility project – 1994.** Participanti: L' Ecole Normale Superioure de Cachan, Paris, Laboratorio Nacional de Eugenharia Lisabona, Universitatea Tehnica Patras, cu tema: "**Analysis and design of reinforced concrete buildings according to EUROCODE 2 & 8**" – membru in echipa de cercetare;
- f88. **INSYSME – „Inovative systems for earthquake resistant masonry enclosures in RC buildings"**, Grant nr.: 606229, FP7-SME-2013, - director coordonator contract de cercetare pentru Roamania, 2013-2016;
- f89. **FPS COST Action FP1101**, "Assessment, Reinforcement and Monitoring of Timber Structures in the Management Committee Member"- director coordinator contract pentru Romania, 2014.

NATIONAL RESEARCH GRANTS

- f90. Contract de cercetare CNCSIS-GRANT TIP A Contract 33501/2002 - Tema 48, Cod CNCSIS 117 "Noi metode in proiectarea elementelor structurale din beton-armat" Beneficiar- Ministerul Educatiei, Cercetarii si Tineretului, Consiliul National al Cercetarii Stiintifice din Invatamantul Superior, cercetare in cadrul Universitatea "Politehnica" Timisoara, Facultatea de Constructii si Arhitectura, Departamentul C.C.I.A., Ianuarie 2004;
- f91. Contract de cercetare CNCSIS-GRANT TIP A Contract 33550/2003-Tema 30-COD CNCSIS 31 – "Noi metode in proiectarea elementelor structurale din beton-armat.Cercetari experimentale." Beneficiar-Ministerul Educatiei, Cercetarii si Tineretului, Consiliul National al Cercetarii Stiintifice din Invatamantul Superior, cercetare in cadrul Universitatea "Politehnica" Timisoara, Facultatea de Constructii si Arhitectura, Departamentul C.C.I.A., Ianuarie 2004;
- f92. Contracte de cercetare CNCSIS-GRANT TIP A Contract 40535/2003 - Tema 4, Cod CNCSIS 489 :“Metode alternative de proiectare a elementelor structurale din beton armat. Cercetari teoretice. Raport final de cercetare” Beneficiar- Ministerul Educatiei, Cercetarii si Tineretului, Consiliul National al Cercetarii Stiintifice din Invatamantul Superior, cercetare in cadrul Universitatea "Politehnica" Timisoara, Facultatea de Constructii si Arhitectura, Departamentul C.C.I.A., Martie 2005;
- f93. Contract 32940/2004-Tema 4-COD CNCSIS 489– "Raport final de cercetare” Beneficiar-Ministerul Educatiei, Cercetarii si Tineretului, Consiliul National al Cercetarii Stiintifice din Invatamantul Superior,

cercetare in cadrul Universitatea "Politehnica" Timisoara, Facultatea de Constructii si Arhitectura, Departamentul C.C.I.A., Martie 2005;

- f94. Contract nr. 658/11.06.2001 ANSTI 1A25/2001 – "Verificare de rezistenta, rigiditate si ductilitate a structurilor metalice in zone seismice" intre Universitatea Politehnica Timisoara, Departamentul de Arhitectura si INCERC Timisoara;
- f95. Contract nr. BC 92/13.09.2011, no.4423, „Expertiza tehnica, proiect de instalatii, consultanta de proiectare pentru structura istorica si vulnerabilitatea cladirii Palatul Administrativ Ciacova, Piata Cetatii nr.2, Judetul Timis, Romania”, contract intre Universitatea Politehnica Timisoara, si Primaria Orasului Ciacova, Judetul Timis, Romania.

REVIEWER FOR INTERNATIONAL ISI JOURNALS

- f96. **Bulletin of Earthquake Engineering** (impact factor 1,368/2013) Ed. Springer : "Ductility and ductility reduction factors for steel buildings considering different structural representations"; authors: A. Reyes-Salazar, E. Bojórquez, J. I. Velazquez-Dimas, A. López-Barraza, J. Luz Rivera-Salas, martie, 2014;
- f97. **Engineering Structure** (impact factor 1.767/2013), Ed. Elsevier: "Eurocode-based seismic assessment of modern heritage RC structures: the case of the Tower of the Nations in Naples (Italy)", authors : F. De Luca, G.M. Verderame, G. Manfredi, decembrie 2013;
- f98. **Structural Concrete** (impact factor 0,857/2013) Ed. Ernst&Sohn Wiley Brand: "Analysis of reinforced shear walls with single band of octogonal opening; authors: A.K. Marsono, S.Hatami - University Teknologi Malaysia, iunie 2013;
- f99. **Journal of Engineering Failure Analysis** (impact factor 1,130/2013), Ed. Elsevier:"Failures of structures during the October 23, 2011 Tabanlı (Van) and November 9, 2011 Edremit (Van) Earthquakes in Turkey", authors: M. Tapan, M. Comert, C. Demir, Y. Sayan, K. Orakcal, A. Ilki, 2012;
- f100. **Thin Walled Structures** (impact factor 1.432/2013), Ed. Elsevier : "Analytical prediction of available rotation capacity of cold-formed rectangular and square hollow section beams", authors: M. D'Aniello, E. M. Güneysi, R. Landolfo, K. Mermerdaş, septembrie 2013;
- f101. **International Journal of Architectural Heritage**, (impact factor 0,375/ 2012), "Experimental Research on Physiscal and Mechanical Performances of Steel Rebars in Chinese Modern Reinforced Concrete Building built during the Republic of China era from 1912 to 1949", authors: C. Qing, P. Jianwu, F. Shihu, Ed. Taylor& Francis, 2014;
- f102. **European Journal of Environmental and Civil Engineering**, (impact factor 0.437/2013) "Cold formed thin-walled steel structures as vertical addition and energetic retrofitting systems of existing masonry buildings", authors: F. Antonio, G. Di Lorenzo , G. Terraciano, R. Landorfo, Ed. Taylor& Francis, 2014;
- f103. **Journal Scientific Research and Essays** (impact factor 0,32) : "Earthquake Risk Management and a Rapid Scoring Technique for Reinforced Concrete Buildings", Nr. manuscript SRE/03.05.13/5513. 2013;
- f104. **World Scientific and Engineering Academy and Society**, 2012;

MEMBER IN INTERNATIONAL SCIENTIFIC COMMITTEES

- f105. **PROHITECH '14**, "2nd International conference on protection of historical constructions" 2-7 May 2014, Antalia, Turcia, 2014;
- f106. **VANEQS 2013**, "International Van earthquake symposium", 23-27 October, Van, Turcia, 2013;
- f107. **RIMA'10**, "International Conference in Risk Mngement, Asseessment and Mitigation", WSEAS, Bucuresti, 2010;
- f108. **RICH 2014**, "2nd International Conference RICH 2014 - Robotics: Innovation for Cultural Heritage", Roma, Italia, 2014;
- f109. **SHATIS'15**, 3rd International Conference on Structural Health Assessment of Timber Structures, September 9-11, Wroclaw, Polonia, 2015.

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